4SeasonsSpa

USER MANUAL

EasyNova control box

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With and without circulation pump

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Dear 4SeasonsSpa Owner,

4SeasonsSpa congratulates you on your decision to enjoy your own Spa. This User Manual will acquaint you with the operation and general maintenance of your Spa. In addition a technical manual has also been supplied for the installation and set-up of your Spa. This technical manual provides a more detailed description regarding installation, operation and maintenance.

Operating spa display

The Spa is operated through the main display, enabling you to activate the Spa pumps, light and blower (where fitted) and control the settings (filtration, temperature, time).

(Fig.1)

Icons meaning and light operation		
Icon	Solid	Blinking
	Pump 1 active at high speed	Pump 1 active at low speed
	Pump 2 active at high speed	Pump 2 active at low speed
	Pump 3 active at high speed (where fitted)	
	Blower active (where fitted)	
	Light on	
	Display showing the desired temperature	
	Filter or Purge function active	Filter or Purge function in stand-by
	Heater active	Heater not active due to Low Current setting
	Economy function is activated	Economy function is in stand-by

1 Spa Operation

1.1 Hydro-massage Pumps

This Spa has 2 or 3 pumps, these pumps are single or double speed (depends on configuration), enabling you to select the preferred intensity of hydro-massage. The pumps are connected and operated through the display (Fig.1).

- Press one of the 2 or 3 pump buttons to activate the pump at low speed.
- Press the same button a second time to turn the double speed pumps to high speed and to switch off the single speed pumps.
- Pressing the same button a third time turns the Pump off.

A built-in timer automatically turns off the Pump after 20 minutes.

For spa's without circulation pumps only: if pump 1 is running automatically at low speed or remains running on low speed then the heating and/or filtration cycle is operating and the pump will continue until the water has reached the desired temperature and/or the filter cycle is finished.

1.2 Lighting

- Press the to turn light on.
- Press a second time (within 4 seconds) to switch to a different color.
- Press a third time (within 4 seconds) to continue changing the color or alter the lighting sequence.

A built-in timer automatically turns off the light after 2 hours.

1.3 Blower (where fitted)

When your spa has a blower you can start it the following way:

- Press the to turn blower on.
- Press a second time to stop the blower.

A built-in timer automatically turns off the Blower after 20 minutes.

2 Water filtration & Temperature

To ensure the water in the Spa is clear and clean correct filtration (in combination with proper water treatment) is essential. We need to differentiate two types of spa: a spa equipped with a 24 hour circulation pump and spa without this extra circulation pump.

Spa **without** circulation pump:
The spa is using the jet pump 1 on low speed for filtering and heating. The Spa filter cycles should always operate for at least 2 x 2 hours a day. This can be controlled through the display (Fig. 1). Filtration starts and stops automatically.

Spa **with** extra circulation pump:
The spa is using the extra circulation pump for filtering and heating, this small pump is running for 24 hours a day which ensures a continuous flow in your spa. Beside the continuous flow this spa will have some PURGE cycles as well. With a purge cycle (40 seconds) the jet pump is running on high speed to clean the hoses and to have more water movement.

The water temperature is set at the desired level and is kept at this level through the heating system and the Spa insulation.

For proper water treatment according to local requirements please ask your dealer and check page 10.

2.1 Filter Cartridges

The Spa is equipped with 1 or 2 cartridge water filters to filter small impurities from the water. As a result the filters may become clogged, resulting In reduced water flow. It is important to maintain a clean, unobstructed filtration system. Clean the filter cartridge every week by rinsing it with a powerful water jet (a garden hose not a pressure washer). Our recommendation is that you renew the filter cartridges every year. Your Spa dealer will be able to provide you with special cleaning products for your filter cartridge. Never use regular soap as it will have a detrimental effect on the water quality in your Spa. When filter cartridges are not cleaned in time a FLO message can show up in the display.

2.2 Filtering

For filtering, we differentiate spa's with and without circulation pump.

2.2.1 Filter cycles for spa's **without** extra circulation pump

Each filter cycle will start with the jet pumps running for a short time on high speed. During filter cycles pump 1 will run on low speed. By pressing the button and the and buttons the filtration cycle can be controlled and adjusted. The duration of the cycle and the time to start the first cycle can be selected, the subsequent cycles follow at 12 hourly intervals.

FDx: duration of the filter cycles, FSx: time to start the filter cycle for the first time

• FD – duration of the filter cycle

The duration of the filter cycles can be set from 0 hours (filtering disabled) to 12 hours (continuous filtering) with 1 hour steps. We recommend 2 or 3 hours each cycle.

• FS – start up time to start the filter cycle

Now you can enter time when you wish to start the first filter cycles. After that the filter cycles will start with an interval of 12 hours.

2.2.2 Filter cycles for spa's <u>with</u> extra circulation pump

In this configuration your spa is equipped with a 24-hour circulation pump, running all day long. To have more water movement in the spa and to clean all hoses from the inside the spa control will start a PURGE cycles a few times a day. During each purge cycle the jet pumps are is running for a few seconds on high speed. By pressing the button and the and buttons the purge cycle can be controlled and adjusted. When you enter a purge of 6 (recommended) the spa will have each 4 hours 1 purge cycles of 40 seconds (24 hour/6=4).

Filter Boost function

This function is used to activate an accelerated filter cycle of limited duration. Pump 1 is started at high speed, and the ozone generator runs for 45 minutes, pump 2 (and pump 3 where fitted) for 1 minute. To activate the function, press and hold the button for 5 seconds. This function has to be activated after heavy use of the spa and/or addition of chemical products. The display shows the code BOO.

2.3 Water Temperature

- The display shows the current water temperature.
- By using the arrow buttons and you can adjust the water temperature to the desired level. The newly selected water temperature will be shown on the display for five seconds, confirming the new settings, display shows . After 5 seconds the display will again show the current temperature.
- The water will be re-heated when the temperature has dropped 0.5 degrees Celsius.

The water temperature can be set at a value between 15 and 40 °C.

2 Water filtration & Temperature

2.4 Economy Mode

The economy mode allows the temperature of the water in the Spa to drop up to 10 degrees below the set temperature without re-heating. Only use this mode if your Spa will not be used for an extended period of time. Thanks to the high insulation values, keeping the Spa at the desired temperature is more economical than constantly reheating the water.

By pushing the button you can program:

EDx – duration of the economy cycle, **ESx –** start time of the economy cycle

• The ED (duration)

Condition varies from 0 to 24 hours selected with the arrow buttons.
0 = function deactivated and 24 = function always active.

• The ES (time to commence Economy Mode)

Now you can enter time that you want to start the first filter cycles. After that the ECO cycles will start.

3 Other

3.1 Display Lock

It is possible to lock the display partially or entirely, which can be a useful safety measure when the Spa is often used by children.
There are two settings possible: **Partial (LOCK P): buttons operating pumps and the light can be operated.**
Full (LOCK F): none of the buttons will function.

- Press and hold the button for 3 seconds the partial display lock (LOCK P) is activated.
- Press and hold the button for 6 seconds all buttons are disabled (LOCK F).
- Press and hold the button again for 5 seconds the display is reactivated (ULOC).

3 Other

3.2 Display Rotation

This function is used to invert the direction of the display to make it easier to read when you are seated in the spa.
This function can be activated as follows:
Press and hold for 5 seconds the button. The function is disabled in the same way. The function is also disabled by switching the pack off.

3.3 Stand By Function

Allows you to lock all the functions (60-min duration) so as to carry out the ordinary maintenance operations without cutting off power to the spa. The STAND-BY function is activated by pressing the key for 5 seconds. Whenever the function is active, the message “Sby” will be visualized alternatively on your display and the elapsing time will be in minutes. The STAND-BY function locks the filtering/purging cycles, which are programmed and carried out every 40 min after the end of the stand-by function. This function can be terminated by pressing the key LIGHT for 5 seconds or available time has elapsed (60 minutes).

3.4 Clock Function

This function is controlled by the user by the key , which helps you visualize and set the time on the clock of your Control.
Carry out the following steps, as listed below:

- Keep on pressing the key for 5 seconds until your display visualizes the time digits which will blink on and off slowly;
- By using the keys and on the keypad, choose your desired time;
- Press the key to change the minutes;
- By using the keys and , choose your desired minutes;
- Press for the third time the key to store the new settings.

4 Hydro-massage

The hydro-massage is regulated and set by using the pumps on low or high speed (see display), activating the venturi system, regulating the water direction and opening/closing individual jets.

4.1 Regulating the Jet power

The pumps forces a large amount of water through the jets. It is possible to add more force to the jets by adding air to the water with the use of the venturi system.
The air supply is regulated using one of the venturi air valves. Turn the valve to the left to open the air supply or to the right to close the air supply.
Each seat (combination) has its own venturi air valve.
You will only see an effect when the pumps are operating at high speed. The air valves are the small controllers found on the top edge of the spa.
To regulate the water distribution, the large controllers (diverters) can be used. By turning these water controllers, it distributes the water flow to the desired seat(s) in the Spa.
Using these diverters the desired massage intensity can be set. Turn the pumps off before setting / turning the diverter in the desired direction.

4.2 Jets

Each 4SeasonsSpa is equipped with the WIRP-system, based on 4 different types of jets. Each jet type offers a different massage and comes in a variety of sizes. Each individual jet can be opened and closed by turning it clockwise or anti-clockwise.

5 Emptying the Spa

The Spa is emptied by using the gravity drain. Enter the technical compartment and to open the gravity drain remove the first cap and turn the valve counter clockwise, after that pull the valve open, water will then flow out. Only empty the Spa when the power to the Spa is completely shut-off. Never leave the Spa empty during frosty periods as water might remain in the tubes and cause serious damage.

6.1 Preparations

- Specific rules for water treatment in your residential spa cannot be prescribed. The minimum required standards for spa maintenance are outlined below. 4SeasonsSpa is not responsible for providing information about water treatment. This page will only provide you with some guidelines. Each region or country has its own rules about water treatment.
- Take into account the directions given by your dealer. Local dealers are familiar with different water treatment products, specific to your region and water-type. Make sure you are properly informed.
- Ensure proper information is provided on the chemicals being offered. Ensure the provided chemicals can be used for the water treatment in your spa, and that they are allowed in the country you will be using your spa in. Very important: 4SeasonsSpa is not responsible for the water quality in your spa, as this is entirely dependent on water treatment and the water quality from your supplier.
- To fill your spa, use only regular tap water.
- As soon as the spa is filled, begin water treatment. The filtration mechanism has to be on continuously, which requires constant current to be available.

6.2 3-step Water treatment

1 Test the pH value of the water and adjust if necessary. Keep the pH between 7.2 and 7.6. At this pH value disinfecting products will work best. The total alkaline value should be kept between 80 and 120 ppm (mg/l). Record the values in a log-book for your records.
2 Free chlorine should be kept at 3.0–4.0 ppm.
3 Every two or three months, the night before draining the spa, add some special Anti-scale spa chemicals to your spa water and leave it to run overnight. This will remove any lime scale from your pipes and pumps. The manufacturer is not liable for replacing pumps, heater, jets or other parts, due to too high calcium levels.

A regular checkup (at least twice a week and before each spa use) of the water is necessary for the following parameters:

a) pH-value between 7.2 and 7.6
b) Free chlorine value must be 3.0–4.0 ppm
c) Bound chlorine should be at most 0.2 mg/l and always lower than Free chlorine
d) Total alkaline value should be between 80 and 120 ppm

6 Watertreatment

To test for these values use a reliable testing kit and record the values in a log book. This way you can maintain an overview of the manner in which the water is treated and used. In most situations we recommend replacing the water every three months if the spa is in standby. If the spa is used more often, the water should be changed more regularly.

Hard water due to too high calcium levels in the water can damage your spa and/or certain parts. Soft water can have a negative influence on your water quality. The quality of tap water needs to be within an acceptable range, at a calcium hardness of 150 ppm to 250 ppm. Too high calcium levels will void your 4seasonsspa warranty. Contact your spa dealer to ensure your water is within the acceptable calcium level range.
Never use chlorine tablets (tri-chlorine). The only form of chlorine allowed is in powder form (di-chlorine). If you do use chlorine tablets, this will void the warranty on the spa completely and entirely.

7 Important things to know & do to maintain your spa

For optimum performance durability and to prevent problems with your spa a standard maintenance regime is required. Your spa dealer will explain everything to you during installation. Herewith are important instructions to follow carefully.

- Before filling your spa for the first time your dealer needs to check that the water is not too hard*. When water is too hard the spa needs to be balanced with a water softener. Calcium hardness of water needs to be in a range between 120 and 250 ppm (parts per million). Water hardness can also be measured in terms of German Hardness expressed as °dH and your spa water needs to be in between 7 and 13 °dH. If the water is too hard or soft it will damage your pumps, jets and heater and will invalidate your warranty.
- Twice weekly water maintenance is required. Checking pH and chlorine are the most important values (see chapter 6 for required pH and chlorine values).
- Weekly clean the filter cartridge by rinsing it with a powerful water jet (a garden hose not a high pressure washer).
- Once every 2 or 3 months clean and grease the diverters to prevent dehydration and lime / calcification. When your diverters are turning smoothly

7 Important things to know & do to maintain your spa

it is not necessary to clean and grease them. Ask your dealer to help you the first time.

- Change the water at least every 3 months.
- Once a year a service check by your dealer is required.

**Hard water is water that contains an appreciable quantity of dissolved minerals (like calcium and magnesium).*

8 Service

In case you experience any difficulties or problems with your spa resulting in a specific code on your display, please check the table below. The description after the display code explains what it means (Problem) and provides advice on how to solve it (Action). If the problem persists after following recommended actions please get in contact with your authorized 4SeasonsSpa dealer. Your closest 4SeasonsSpa dealer can be found at: **www.4Seasonsspa.com/stores.**

Display code	Problem	Action
FLO	Flow switch is not detecting flow when it should be there (heating pump is on).	Take filter out and verify if message disappears. When error is gone you need to clean or replace filter.
FLC	Flow switch is detecting flow when it should not be there (heating pump is off).	Shut off the power for 10 minutes and restart the spa after.
HO	Your spa is overheated, temperature is 44 °C or higher.	Open cover and cool water below 43 °C.
HL	Water or technical area is overheated.	Shut off the power for one hour and restart the spa after.